REMARKS

Claims 1-4, 6-8 and 10-13 are all the claims pending in the application.

On page 2 of the Office Action, claims 1-4, 6-8, and 10 are rejected under 35 U.S.C. § 103(a) as allegedly being unpatentable over the "Technical Paper" entitled "Technique Paper for Wet-Spinning Poly(L-lactic acid) and Poly(DL-lactic-co-glycolide) Monofilament Fibers."

Applicants respectfully submit herewith evidence, namely a copy of the Abstract of the cited reference from the publisher's website, which indicates that the reference was actually published on July 9, 2004, which is later in time than the February 12, 2004 U.S. filing date of the present application. Referring to the Abstract of the cited reference, the Abstract notes that the article should be cited as December 2003, but the Abstract expressly states that the reference was not published until July 9, 2004. Thus, although the reference may have been submitted earlier, the reference does not appear to have been made available to the public until July 9, 2004. See MPEP § 2128.

Therefore, the Technical Paper is not prior art.

Withdrawal of the § 103 obviousness rejection based on the Technical Paper is respectfully requested.

In view of the above, reconsideration and allowance of this application are now believed to be in order, and such actions are hereby solicited. If any points remain in issue which the Examiner feels may be best resolved through a personal or telephone interview, the Examiner is kindly requested to contact the undersigned at the telephone number listed below.

RESPONSE UNDER 37 C.F.R. § 1.111 Attorney Docket No.: Q88453

Application No.: 10/544,112

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account.

Respectfully submitted,

Registration No. 33,725

Bruce E. Kramer

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George M. Smith, PhD			Keyword:
TissueGen, Artington, Texas; Department of Physiology, and Spinal Cord and Brain Injury Research Center, University of Kentucky, Lexington, Kentucky			search
and poly(DL-	lactic-co-glycolk	hod is described for wet-spinning poly(L-lactic acid) (PLLA) c acid) (PLGA) monofilament fibers. These fibers are strong, applications, including use as tissue-engineering scaffolds. s do not show additional strain-induced crystallization as a	Adva

result of drawing the fibers during fabrication; however, there is an apparent increase in crystallinity late in the degradation process in saline at 37° C. We have measured the molecular weight degradation in saline at 37° C for fibers of both PLIA and PLGA. Mary Ann Liebert, Inc. - Lissue Engineering - 9(6):1323

Q 88453

Changing solvent systems, polymer blends, and winding rates alters mechanical and morphological properties of these fibers for specific applications. The authors discuss a possible theoretical explanation for these observed changes due to changes in polymer concentration, solvent system, and coagulation bath properties. This wet-extrusion process is simple and inexpensive enough to be carried out in almost any laboratory interested in tissue engineering.

TISSUE ENGINEERING Volume 9, Number 6, 2003

Technical Report

Technique Paper for Wet-Spinning Poly(L-lactic acid) and Poly(pt-lactide-co-glycolide) Monofilament Fibers

KEVIN D. NELSON, PLD., L. ANDRES ROMERO, M.S., PAULA WAGGONER, M.S., 2 BRENT CROW, B.S., ANGELA BORNEMAN, M.S., and GEORGE M. SMITH, Ph.D.

ABSTRACT

A simple and repeatable method is described for wet-spinning poly(t-lactic scid) (PLLA) and poly(DL-luctic-co-glycolic scid) (PLGA) monofilament fibers. These fibers are strong, clustic, and sultable for many applications, including use as tissue-engineering scaffolds. The PLLA west-extruded fibers do not show additional strain-induced crystallization as a result of drawing the fibers during fabrication; however, there is an apparent increase in crystallinity late in the degradation process in sailine at 37°C. We have measured the molecular weight degradation in saline at 37°C for fibers of both PLLA and PLGA. Changing solvent systems, polymer blends, and winding rates alters mechanical and morphological properties of these fibers for specific applications. The authors discuss a possible theoretical explanation for these observed changes due to changes in polymer concentrution, solvent system, and congulation buth properties. This wet-extrusion process is simple and inexpensive enough to be carried out in almost any laboratory interested in those engineering.

INTRODUCTION

tures,2 in antiopedic applications,2,4 and more recently tide-co-glycolide) (PLGA) monofilament fibers suitable have become important synthetic scaffoldings for tissue-for scaffoldings for tissue-engineering applications. The engineering applications.** They were shown because concept of wet-spinning is not new; Kulkarni et al. wet-

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Effect of hot drawing on properties of wet-spun poly(L,D-lactide) copolymer multifilament fibers

Marja Rissanen, Arja Puolakka, Terttu Hukka, Ville Ellä, Minna Keliomäki, Pertti Nousiainen

Soist Program in Blemedical Engineering, University of Texas Southwestern Medical Center at Dallas, Dallas, Texas; and University of Texas at Arlington, Atlington, Texas,

^{*}Thougeton, Artington, Yeans.
*Department of Physiology, and Spinal Cord and Brain Injury Research Center, University of Kentucky, Levington, Kentucky.